Attorney Docket No: MP0430 Customer Number: 23624

ABSTRACT OF THE DISCLOSURE

Systems, methods and apparatus relating to electronic circuits and signal processing are provided. In one aspect, a circuit is provided that includes a charge-pump operable to supply an output voltage, and a current mirror in communication with the charge-pump. The current mirror is responsive to the output voltage of the charge pump, and is operable to output a relatively constant current and suppress noise from the output voltage.